

CLAIMS

What is claimed is:

1. A switch actuator assembly, comprising:
a mount plate having at least a first side, a second side, and an outer peripheral surface;
an actuator arm rotationally coupled to the mount plate and rotationally moveable between at least an activate position and a deactivate position; and
a spring arm coupled to the mount plate and extending away from the mount plate outer peripheral surface, the spring arm configured to supply a force that biases the actuator arm toward the deactivate position at least when the actuator arm is in the activate position.

2. The switch actuator assembly of claim 1, wherein the actuator arm comprises polyether ether ketone.

3. The switch actuator assembly of claim 1, wherein the actuator arm comprises beryllium copper.

4. The switch actuator assembly of claim 1, wherein the mount plate comprises 304 stainless steel.

5. The switch actuator assembly of claim 1, wherein the spring arm comprises a metal having spring properties.

6. The switch actuator assembly of claim 7, wherein the metal is 17-7 pH stainless steel.

7. The switch actuator assembly of claim 1, further comprising:
a spring plate coupled to the mount plate first side, wherein the spring arms are located on the spring plate.

8. The switch actuator assembly of claim 1, further comprising:

an actuator disposed proximate the actuator arm, the actuator adapted to receive a drive force and move the actuator arm, upon receipt of the drive force, between the activate and deactivate positions

9. The switch actuator assembly of claim 8, wherein the actuator is a cam.

10. A switch actuator assembly, comprising:

a mount plate having at least a first side, a second side, and an outer peripheral surface;

a first and a second actuator arm each rotationally coupled to the mount plate and each rotationally and independently moveable between at least an activate position and a deactivate position; and

a first and a second spring arm coupled to the mount plate and each extending away from the mount plate outer peripheral surface, the first and second spring arm each configured to supply a force that biases the first and second actuator arms toward the deactivate position, respectively, at least when the first or the second actuator arm is in the activate position.

11. A switch actuator assembly comprising:

a mount plate having at least a first side, a second side, and an outer peripheral surface;

an actuator arm rotationally coupled to the mount plate and rotationally moveable between at least an activate position and a deactivate position;

a spring arm coupled to the mount plate and extending away from the mount plate outer peripheral surface, the spring arm configured to supply a force that biases the actuator arm toward the deactivate position at least when the actuator arm is in the activate position; and

a switch assembly disposed proximate the mount plate having a switch selectively moveable between a closed position and an open position in response to actuator arm movement between the activate and deactivate positions, respectively.

UTILITY PATENT APPLICATION
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12. The switch actuator assembly of claim 11, wherein the actuator arm comprises polyether ether ketone.

13. The switch actuator assembly of claim 11, wherein the actuator arm comprises beryllium copper.

14. The switch actuator assembly of claim 11, wherein the mount plate comprises 304 stainless steel.

15. The switch actuator assembly of claim 11, wherein the spring arm comprises a metal having spring properties.

16. The switch actuator assembly of claim 17, wherein the metal is 17-7 pH stainless steel.

17. The switch actuator assembly of claim 11, further comprising:
a spring plate coupled to the mount plate first side, wherein the spring arms are located on the spring plate.

18. The switch actuator assembly of claim 11, further comprising:
an actuator disposed proximate the actuator arm, the actuator adapted to receive a drive force and move the actuator arm, upon receipt of the drive force, between the activate and deactivate positions

19. The switch actuator assembly of claim 18, wherein the actuator is a cam.